

Hazard Mitigation Strategy Matrix

Mitigation Measure	Use of applicable construction standards	Avoidance through land use	Relocation, retrofitting, or removal of structure at risk	Removal or elimination of hazard	Reduction or limitation of the amount or size of the hazard	Segregation of the hazard from that which is to be protected
Severe Weather	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 3: UTDHS public buildings and private property to withstand the effects of severe weather.	Avoidance of severe weather was determined not to be economically or engineering feasible	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 3: UTDHS public buildings and private property to withstand the effects of severe weather.	Removal or elimination of severe weather was determined not to be economically or engineering feasible	Reduction or limitation of severe weather was determined not to be economically or engineering feasible	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 1: assure that all people have basic information relating to severe weather issues.
Earthquake	State Hazard Mitigation Plan Section 3 Earthquake Priority Goal 3: Include seismic standards in building codes UTDHS where appropriate	State Hazard Mitigation Plan Section 3 Earthquake Priority Goal 3: Include seismic standards in building codes UTDHS where appropriate	State Hazard Mitigation Plan Section 3 Earthquake Priority Goal 1: Reduce the effects of earthquakes on critical facilities	Removal or elimination of earthquakes was determined not to be economically or engineering feasible	Reduction or limitation of earthquakes in not yet scientifically or economically feasible	State Hazard Mitigation Plan Section 3 Earthquake Priority Goal 1: Reduce the effects of earthquakes on critical facilities
Building Fire	Utah Code -- Title 58 -- Chapter 56 -- Utah Uniform Building Standards Act	Avoidance of building fires through land use was determined not to be engineering feasible	Utah Code -- Title 58 -- Chapter 56 -- Utah Uniform Building Standards Act	Utah Code -- Title 58 -- Chapter 56 -- Utah Uniform Building Standards Act	Utah Code -- Title 58 -- Chapter 56 -- Utah Uniform Building Standards Act	Utah Code -- Title 58 -- Chapter 56 -- Utah Uniform Building Standards Act
Drought	State Hazard Mitigation Plan Section 3 Drought Priority Goal 2: Reduce the impact of development on water resources	State Hazard Mitigation Plan Section 3 Drought Priority Goal 3: Improve public water infrastructure	State Hazard Mitigation Plan Section 3 Drought Priority Goal 3: Improve public water infrastructure	State Hazard Mitigation Plan Section 3 Drought Priority Goal 1: Conserve existing water resources in all sectors	State Hazard Mitigation Plan Section 3 Drought Priority Goal 1: Conserve existing water resources in all sectors	State Hazard Mitigation Plan Section 3 Drought Priority Goal 2: Reduce the impact of development on water resources
Tornado	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 3: UTDH Sign public buildings and private property to withstand the effects of severe weather.	Avoidance of Tornadoes through land use was determined not to be engineering feasible	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 3: UTDH Sign public buildings and private property to withstand the effects of severe weather	Removal or elimination of tornadoes was determined not to be economically or engineering feasible	Reduction or limitation of tornadoes was determined not to be economically or engineering feasible	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 3: UTDHS public buildings and private property to withstand the effects of severe weather
Landslide	State Hazard Mitigation Plan Section 3 Landslide Priority Goal 4: Encourage cities, towns, and counties to develop ordinances for geologic hazards	State Hazard Mitigation Plan Section 3 Priority Goal 4: Encourage cities, towns, and counties to develop ordinances for geologic hazards.	State Hazard Mitigation Plan Section 3 Priority Goal 4: Encourage cities, towns, and counties to develop ordinances for geologic hazards	Removal or elimination of landslide UTDHS was determined not to be economically or engineering feasible	State Hazard Mitigation Plan Section 3 Priority Goal 4: Encourage cities, towns, and counties to develop ordinances for geologic hazards	State Hazard Mitigation Plan Section 3 Priority Goal 4: Encourage cities, towns, and counties to develop ordinances for geologic hazards
Flooding	State Hazard Mitigation Plan Section 3 Flood Priority Goal 2: Mitigate flood loss by structural projects	Utah Code -- Title 17 -- Chapter 08 -- Flood Control Projects and Drought Emergencies	State Hazard Mitigation Plan Section 3 Flooding Priority Goal 2: mitigate flood loss by structural projects	State Hazard Mitigation Plan Section 3 Flooding Priority Goal 2: mitigate flood loss by structural projects	State Hazard Mitigation Plan Section 3 Flood Priority Goal 1: Obtain benefits of NFIP for all property owners.	State Hazard Mitigation Plan Section 3 Flooding Priority Goal 2: mitigate flood loss by structural projects

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Dam Failure	Utah Code 73-5a-201 Approval of state engineer necessary to construct, alter, or abandon dams. State Hazard Mitigation Section 3 Plan Dam Safety Priority Goal 1	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 1: Bring existing dams up to current standards	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 1: Bring existing dams up to current standards	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 1: Bring existing dams up to current standards	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 1: Bring existing dams up to current standards	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 2: Bring advances in the scientific and engineering fields into dam safety planning
Wildfire	Utah Code -- Title 58 -- Chapter 56 -- Utah Uniform Building Standards Act	The State does not have a state wide land use law/ordinance	State Hazard Mitigation Plan Section 3 Wildfire Priority Goal 2: provide public information and education regarding the wildfire hazard and what people can do about it	State Hazard Mitigation Plan Section 3 Wildfire Priority Goal 1: eliminate dangerous fuel loading in wildlands	State Hazard Mitigation Plan Section 3 Wildfire Priority Goal 1: eliminate dangerous fuel loading in wildlands	State Hazard Mitigation Plan Section 3 Wildfire Priority Goal 3: encourage and assist local governments to require property owners and developers to utilize defensible space tactics

Mitigation Measure	Modification of the basic characteristics of the hazard	Control of the rate of release	Provisions of protective systems or equipment of for both cyber or physical risk	Establishment of hazard warning and communication procedures	Redundancy or duplication of essential personnel, critical systems, equipment, information, operations, or materials
Severe Weather	Modification of the basic characteristics of severe weather was determined not to be economically or engineering feasible	Control of the rate of release for severe weather was determined not to be engineering feasible	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 2: provide or enhance severe weather warning systems. State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,
Earthquake	Modification of the basic characteristics of earthquakes was determined not to be economically or engineering feasible	Control of the rate of release of earthquakes was determined not to be engineering feasible	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,
Building Fire	Utah Code -- Title 58 -- Chapter 56 -- Utah Uniform Building Standards Act	Utah Code -- Title 58 -- Chapter 56 - - Utah Uniform Building Standards Act	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,

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Drought	State Hazard Mitigation Plan Section 3 Drought Priority Goal 3 Improve public water infrastructure	State Hazard Mitigation Plan Section 3 Drought Priority Goal 3 Improve public water infrastructure	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,
Tornado	Modification of the basic characteristics of tornados was determined not to be engineering feasible	Control of the rate of release for tornados was determined not to be engineering feasible	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Hazard Mitigation Plan Section 3 Severe Weather Priority Goal 2: provide or enhance severe weather warning systems. State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,
Landslide	Modification of the basic characteristics of landslide UTDHS was determined not to be engineering feasible	Control of the rate of release of landslide UTDHS was determined not to be economically or engineering feasible	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,

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Flooding	State Hazard Mitigation Plan Section 3 Flood Priority Goal 2: To mitigate flood loss by structural projects	State Hazard Mitigation Plan Section 3 Flood Priority Goal 4: Mitigate flooding as a result of wildfires	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,
Dam Failure	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 1: Bring existing dams up to current standards	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 1: Bring existing dams up to current standards	State Hazard Mitigation Plan Section 3 Dam Safety Priority Goal 2 Update dam Emergency Action Plans. Required by State Code 73-5a-601 Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,
Wildfire	State Hazard Mitigation Plan Section 3 Wildfire Priority Goal 1: Eliminate dangerous fuel loading in wildlands	State Hazard Mitigation Plan Section 3 Wildfire Priority Goal 1: Eliminate dangerous fuel loading in wildlands	Utah Department of Public Safety Threat Assessment, Countermeasures sections; The Utah Terrorism and Foreign Counterintelligence Threat Assessment, Assessment Summary, Appendix 1 Foreign Counterintelligence, Appendix 2 Intelligence Priorities, and Appendix 3 Possible Indicators of Surveillance.	State Emergency Response Plan, Annex SS Detection and Monitoring, Annex F Emergency Communications, Annex G Emergency Public Information; State Warning Plan, III Warning Conditions; UTDHS Emergency Action Guide; UTDHS Emergency Operations SOP, Notification; State EAS Operations Plan, Activation Requests and Process	ADP (Automation) Disaster Plan Communications, III Disaster Action Plan; State Continuity of Operations (COOP) Plan Continuity Operations Strategy; UTDHS Emergency Action Plan II.3 Organization and Personnel Responsibilities; UTDHS EOC SOP III. Concept, EOC staff; HMGP Admin. Plan State Hazard Mitigation Team duplication expertise,